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| [**1**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | A network is converged and the routing tables are complete. When a packet needs to be forwarded, what is the first criterion used to determine the best path in the routing table? | | |  | the route with the highest bandwidth | |  | the route with the smallest Administrative Distance | |  | the route with the longest address and mask match to the destination | |  | the route with the best combination of Administrative Distance and lowest cost |   Bottom of Form |
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| [**2**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | http://assessment.netacad.net/assessment/images/14643.jpg Refer to the exhibit. Router1 has been issued the **ip classless** command. What happens to packets destined to host 172.16.3.10? | | |  | they are dropped | |  | sent to default gateway | |  | forward out interface Serial0/0/1 | |  | forward out interface FastEthernet 0/0 |   Bottom of Form |
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| [**3**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | What occurs when **no ip classless** is implemented on the router? | | |  | The router will only support classful IP addressing. | |  | The router will only support classful routing protocols. | |  | The router will use a default route, if present, when a matching route is not found in the routing table. | |  | The router will assume it has knowledge of all subnets in the network and will not search beyond child routes for a better match. |   Bottom of Form |
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| [**4**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | http://assessment.netacad.net/assessment/images/21001.jpg Refer to the exhibit. How many routes in this output qualify for use as ultimate routes? | | |  | 3 | |  | 4 | |  | 5 | |  | 6 | |  | 7 | |  | 8 |   Bottom of Form |
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| [**5**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | http://assessment.netacad.net/assessment/images/14859.jpg Refer to the exhibit. What protocol was used to distribute the routing information for the network 172.16.1.4? | | |  | RIPv1 | |  | RIPv2 | |  | EIGRP | |  | OSPF |   Bottom of Form |
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| [**6**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | http://assessment.netacad.net/assessment/images/20999.jpg Refer to the exhibit. Router B receives a packet with a destination address of 10.16.1.97. What will router B do? | | |  | drop the packet | |  | use the default route | |  | forward the packet via the route to 10.16.1.0 | |  | forward the packet via the route to 10.16.1.64 |   Bottom of Form |
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| [**7**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | http://assessment.netacad.net/assessment/images/14642.jpg Refer to the exhibit. Router1 is running IOS version 12.2. What will the network administrator need to do so that packets for unknown child routes of 172.16.0.0/24 will not be dropped? | | |  | issue the **ip default-network command** | |  | use a classful routing protocol such as RIPv1 | |  | enable either OSPF or ISIS as the routing protocol | |  | issue the **ip classless** command | |  | do nothing, **ip classless** is on by default |   Bottom of Form |
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| [**8**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | What determines if the router implements a classless route lookup process? | | |  | Child routes are present in the routing table. | |  | The command **ip classless** is enabled on the router. | |  | A classless routing protocol has been configured on the router. | |  | Routing table entries have a next-hop IP address and an exit interface for each child route. |   Bottom of Form |
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| [**9**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | A route to a destination network is learned from multiple routing protocols. If each learned route has the same network prefix, what is used by a Cisco router to select the preferred route to the destination that will be installed in the routing table? | | |  | metric | |  | route prefix | |  | update timer | |  | administrative distance |   Bottom of Form |
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| [**10**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | http://assessment.netacad.net/assessment/images/14621.jpg Refer to the exhibit. What parent network will automatically be included in the routing table when the three subnets are configured on Router1? | | |  | 172.16.0.0/16 | |  | 172.16.0.0/24 | |  | 172.16.0.0/30 | |  | 172.16.1.0/16 | |  | 172.16.1.0/24 |   Bottom of Form |
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| [**11**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | http://assessment.netacad.net/assessment/images/14639.jpg Refer to the exhibit. The network administrator has discovered that packets destined for servers on the 172.16.254.0 network are being dropped by Router2. What command should the administrator issue to ensure that these packets are sent out the gateway of last resort, Serial 0/0/1? | | |  | **ip classless** | |  | **no ip classless** | |  | **ip default-network 0.0.0.0** | |  | **ip default-gateway 172.16.254.1** | |  | **ip route 0.0.0.0 0.0.0.0 Serial 0/0/1** |   Bottom of Form |
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| [**12**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | http://assessment.netacad.net/assessment/images/16333.jpg Refer to the exhibit. What subnet mask will Router1 apply to child routes of the 172.16.0.0/24 network? | | |  | 0.0.0.0 | |  | 255.255.0.0 | |  | 255.255.255.0 | |  | 255.255.255.255 |   Bottom of Form |
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| [**13**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | http://assessment.netacad.net/assessment/images/14596.jpg Refer to the exhibit. Which statement correctly describes this network? | | |  | EIGRP is being used | |  | There is at least one parent and one child route | |  | 192.168.2.0, 192.168.3.0, and 192.168.4.0 networks are child routes | |  | Traffic going to 172.16.3.0 will be directed to s 0/0/1 |   Bottom of Form |
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| [**14**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | The following entry is displayed in the routing table:   R 192.168.8.0/24 [120/2] via 192.168.4.1, 00:00:26, Serial0/0/1   What type of route is this? | | |  | a level 1 parent route | |  | a level 1 supernet route | |  | a level 1 ultimate network route | |  | a level 2 child route | |  | a level 2 ultimate child route |   Bottom of Form |
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| [**15**](http://assessment.netacad.net/virtuoso/delivery/pub-doc/exam.shtml) | Top of Form   |  |  | | --- | --- | | http://assessment.netacad.net/assessment/images/14590.jpg Refer to the exhibit. A packet destined for host 128.107.0.5/16 is processed by the JAX router. After finding the static route in the routing table that matches the destination network for this packet, what does the router do next? | | |  | searches for a default route to forward the packet | |  | drops the packet since the static route does not have an exit interface | |  | performs a recursive lookup to find the exit interface used to forward the packet | |  | sends a request to neighboring routers for the location of the 128.107.0.0 network |   Bottom of Form |
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